Abstract of the Disclosure

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The invention relates to a testing device for measuring torques with a sensor for generating electrical signals in response to exerted torques, and signal processing means, to which the electrical signals are applied and which provide measuring values of the exerted torque. The invention provides a plurality of measuring heads, which either may have different measuring ranges or may be adapted to different tools to be tested. Each of these measuring heads has its own signal processing means. The signal processing means are calibrated in the same way, such that the torque measuring data of different measuring heads can be compared with each other. When calibrating a measuring head, the individual signal processing means can also be adjusted to take individual non-linearities of the torque sensors into account. The measuring heads can then simply be connected in parallel with the display or evaluation means. If a torque is exerted on anyone of the measuring heads, this torque will automatically be displayed or evaluated with the correct calibration.

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